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Assistant Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450 on July 21, 2006 (Date).

Typed or printed name: Rita M. Lynch

Signature: Rita M. Lynch

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Harry Israel Ringermacher et al.

: Group Art Unit: 2859

Application No. 10/627,206

: Examiner: GK Verbitsky

Filed: July 24, 2003

For: **INFRARED THERMOGRAPHY
IMAGING SYSTEM WITH
ACTIVELY QUENCHED LAMP**

AFFIDAVIT UNDER 37 CFR 1.131

Assistant Commissioner for Patents
Alexandria, VA 22313-1450

S I R:

We, Harry Israel Ringermacher, Richard S. Zhang and Robert John Filkins, declare and state:


1. We are the coinventors of all of the claims of the patent application identified above and coinventors of the subject matter described and claimed therein.


2. On or before October 11, 2001, we had completed our invention as described and claimed in the subject patent application in the United States, as evidenced by the following:

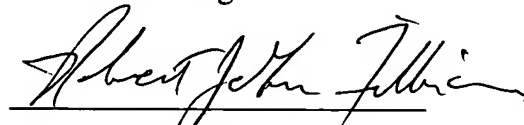
- a. Prior to October 11, 2001 we conceived our invention, as described and claimed, as documented in Exhibits A and C.

- b. By October 11, 2001, we reduced the invention to practice by wiring a 1200 V, 900A IGBT into the line driving a Speedtron model 206 flashlamp from a Speedtron 4803 4.8 kJ supply, as documented in Exhibit C. A gate driver was used to apply a 15 V delay-adjusted gate signal to the IGBT. The flash was monitored using a high speed photodiode and digital storage scope. The flash data clearly showed variable quenching collateral with the applied gate pulse, as documented in Exhibit B.
- c. Exhibit A consists of two pages from a lab notebook, which was initialed and dated by Harry Israel Ringermacher July 20, 2001.
- d. Exhibit B consists of a circuit diagram made on or before October 11, 2001 and flash data obtained on or before October 11, 2001 as evidenced by the "Brief Description of the Drawings" section on page 4 of Exhibit C.
- e. Exhibit C consists of pages 1-4 of a Patent Disclosure Letter submitted on October 11, 2001. A phone number has been redacted on page 2 for privacy considerations. Page 5 has been omitted for privacy considerations because it contains personal address information.

The undersigned declares that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of this application or any patent issuing thereon.

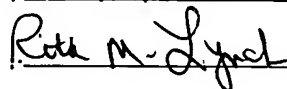

Harry Israel Ringermacher


Richard S. Zhang


Robert John Filkins

Sworn to and subscribed before me this 20th date of July 2006.

~~NOTARY PUBLIC~~
Notary Public, State of New York
Qual. in Rensselaer Co. No. 01LY6079764
Commission Expires 8/29/06

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